

## SEQUENCE LISTING

<110> Chapple, Clinton

Franke, Rochus

Ruegger, Maxwell

<120> Genes Encoding P-Coumarate 3-Hydroxylase (C3H) and Methods of Use

<130> N1422-005

<150> US 60/225554

<151> 2000-08-16

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<170> PatentIn version 3.0

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Val	Ala	Phe	Asn	Asn	Ile	Thr	Arg	Leu	Ala	Phe	Gly	Lys	Arg	Phe	Met	180	185	190	
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Ala	Gly	Arg 435	Arg	Val	Cys	Pro	Gly 440	Ala	Gln	Leu	Gly	Ile 445	Asn	Leu	Val
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35 40 45

Ala Lys Glu Val Leu Lys Glu His Asp Gln Lys Leu Ala Asp Arg His  
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Trp Ala Asp Tyr Gly Pro His Tyr Val Lys Val Arg Lys Val Cys Thr  
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Leu Glu Leu Phe Thr Pro Lys Arg Leu Glu Ser Leu Arg Pro Ile Arg  
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Glu Asp Glu Val Thr Ala Met Val Glu Ser Val Phe Arg Asp Cys Asn  
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Val	Trp	Ile	Gly	Ser	Ile	Leu	Asn	Val	Val	Val	Ser	Ser	Ala	Glu	Leu	35	40	45	
Ala	Lys	Glu	Val	Leu	Lys	Glu	His	Asp	Gln	Lys	Leu	Ala	Asp	Arg	His	50	55	60	
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Trp	Ala	Asp	Tyr	Gly	Pro	His	Tyr	Val	Lys	Val	Arg	Lys	Val	Cys	Thr	85	90	95	
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Met	Asn	Ala	Glu	Gly	Val	Val	Asp	Glu	Gln	Gly	Leu	Glu	Phe	Lys	Ala	165	170	175	
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Glu	His	Thr	Leu	Ala	Arg	Gln	Lys	Ser	Ser	Gly	Ala	Lys	Gln	His	Phe	225	230	235	240
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275 280 285

Arg Val Gln Gln Lys Val Gln Glu Glu Phe Asp Arg Val Val Gly Leu  
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Asp Arg Ile Leu Thr Glu Ala Asp Phe Ser Arg Leu Pro Tyr Leu Gln  
305 310 315 320

Cys Val Val Lys Glu Ser Phe Arg Leu His Pro Pro Thr Pro Leu Met  
325 330 335

Leu Pro His Arg Ser Asn Ala Asp Val Lys Ile Gly Gly Tyr Asp Ile  
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Pro Lys Gly Ser Asn Val His Val Asn Val Trp Ala Val Ala Arg Asp  
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Glu Glu Asp Val Asp Met Lys Gly His Asp Phe Arg Leu Leu Pro Phe  
385 390 395 400

Gly Ala Gly Arg Arg Val Cys Pro Gly Ala Gln Leu Asp Ile Asn Leu  
405 410 415

Val Thr Ser Met Met Ser His Leu Leu His His Phe Val Trp Thr Pro  
420 425 430

Pro Gln Gly Thr Lys Pro Glu Glu Ile Asp Met Ser Glu Asn Pro Gly  
435 440 445

Leu Val Thr Tyr Met Arg Thr Pro Val Gln Ala Val Ala Thr Pro Arg  
450 455 460

Leu Pro Ser Asp Leu Tyr Lys Arg Val Pro Tyr Asp Met  
465 470 475